

L 50967-65

APR 11 1965

FOR THE PROCESSING OF INFORMATION

RECEIVED BY THE DIRECTOR

strength. The mobility was measured in films from 320 to 2000 Å. The wall displacement velocity was found to be proportional to the inverse switching time with the field

AFS-11428

corresponds to the transition from walls with concrete ties to Block wall g.
is consistent with the transition from concrete ties to Block wall g.

SUBMITTED 00

ENCL: 00

SUB CODE: EM, SC

AF AEP 3 W 000

OTHER: 005

3/3

ACCESSION NR: AP5011433

UR/0048/65/029/004/0571/0575

AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 4, 1965, 571-575

TOPIC TAGS: ferromagnetic thin film, domain structure, domain wall, magnetic domain, permalloy

ABSTRACT: Magnetization reversal of thin Ni-Fe films by wall displacement begins at a certain critical field, the values of which, when plotted in H_y (field component in the easy direction) versus H_x (field component in the hard direction) coordinates, yield a curve that may be called the critical curve for irreversible wall displacement processes. However, if an alternating field is applied in the hard direction, there is observed a slow reversal process in field weaker than H_{crit} , i.e., creep of the domain walls. There have been some earlier studies of

...direction, there is observed a slow reversal process in field weaker than
H_{crit}, i.e., creep of the domain walls. There have been some earlier studies of
this creep process and various hypotheses have been advanced to explain the pheno-
menon. The present work was concerned with clarification of the regularities in-

Cara 1/2 ✓

L 50969-45

ACCESSION NR: AP5011433

involved in the creep process in the specific case of 79 NiA Permalloy films prepared by thermal evaporation. Films with thicknesses in the range from 300 to 3000 Å were studied in order to bring to light the influence of the wall energy on the creep process. The experimental procedure consisted in recording, with the aid of a photo-optical effect, the variation of the wall creep rate with magnitude of the static reversing field applied in the easy direction, with the alternating field direction as the additional parameter. For comparison there were also recorded the static curves and curves characterizing the starting field for growth of nuclei. The results are presented in graphic form. On the basis of the field dependence of the creep rate the investigated films can be divided into two classes: class I; thin (under 900 Å) and thick (1500 Å and over) films; class II; films of intermediate thickness. Class I films are characterized by a monotonic increase of the creep rate with increase of H_{max} in the intermediate field range. The increase is not monotonic, but occurs in discrete steps. One of the various hypotheses advanced to explain creep is discussed. The mechanism in the intermediate thickness films may be associated with a transition. Whether the mechanism which is effective in the thin films and the thick ones is still an open question.

also operates in the thick case is still an open question. Orig. art. has: 4
figuras.

Card 2/3

TELESNIN, R.V.; IL'ICHEVA, Ye.N.; SARAYEVA, I.M.

Anisotropic dispersion in normal uniaxial films. Fiz.met. i
metalloved. 18 no.5:691-696 N '64.

(MIRA 18:4)

1. Moskovskiy gosudarstvennyy universitet im. Lomonosova.

ERT(1)/ERT(2)/ERP(1)/ERA(d)/T/ERP(+)/EFC(h)-2/ERP(z)/ERP(b) Pq-4/
 MJW/JD 12/23/0354/0359 46
 AP500780 12/23/0354/0359 45
 6

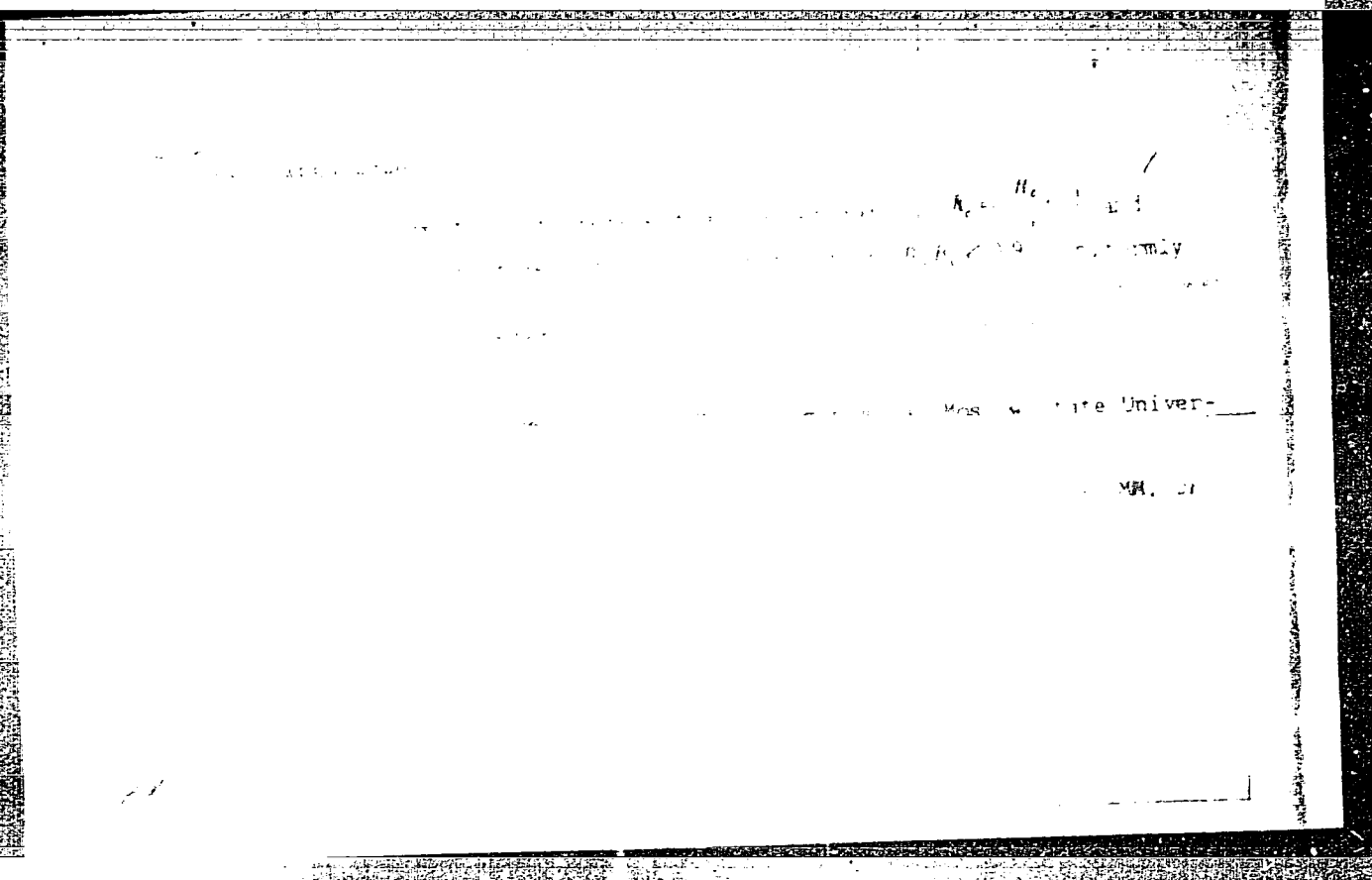
AUTHOR: Il'icheva, Ye. N.

Investigation of anisotropic dispersion in permalloy films by the magneto-optic method

SOURCE: Fizika metallov i metallovedeniye, v. 19, no. 3, 1965, 354-359

TOPIC TAGS: anisotropy, magneto-optics, permalloy, thin film

A magneto-optic method is proposed for measuring local values of the magnetic field H_z and the angular declination of the preferred axes of magnetization on a film with an area of 0.25-1.0 mm². The method is based on measuring the threshold fields of irreversible processes in the rotation of magnetization vectors during magnetic reversal in two directions, both of which are near the most resistant to magnetization, symmetric relative to this axis and form angles $\pm \alpha$ with the axis, somewhat greater than the angle of dispersion β_{90} . The study is limited to films of 79Ni composition sprayed on a hot substrate with the stream of metallic vapor impinging at small angles. These films have a relative



IL'ICHEVA, Ye.N.; KOLTOV, I.S.

Interrupted processes of pulsed magnetic reversal. Izv. AN SSSR.
Ser. fiz. 29 no.4:552-554 Ap '65. (MIRA 18:5)

TELESNIN, R.V.; IL'ICHEVA, Ye.N.; KANAVINA, N.G.; VAN TSZIN'-FEN
[Wang Chin-feng]

Creeping of boundaries in Permalloy films. Izv. AN SSSR. Ser. fiz.
29 no.4:571-575 Ap '65. (MIRA 18:5)

15421-00 EWP(a)/EWP(m)/EWA(d)/EWP(t)/EWP(z)/EWP(b) MJW/JD
ACC NR: AP604480

UR/0048/66/030/001/0099/0102

AUTHOR: Il'icheva, Ye.N.; Kanavina, N.G.; Shishkov, A.G.

ORG: Physics Department, Moscow State University im. M.V. Lomonosov (Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta)

TITLE: Critical curves of thin Permalloy films Transactions of the Second All-Union Symposium on the Physics of Thin Ferromagnetic Films held at Irkutsk 10 July to 15 July, 1964/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 1, 1966, 99-102

TOPIC TAGS: ferromagnetic film, magnetic thin film, permalloy, Kerr effect, Paraday effect, magnetic coercive force, magnetic domain boundary, magnetization

ABSTRACT: By a critical curve is understood a curve giving the strength of the magnetizing field at which some feature of the switching process occurs as a function of the angle between the magnetizing field and the easy axis, plotted in polar coordinates or, what is the same thing, with the longitudinal (parallel to the easy axis) and transverse components of the magnetizing field as rectangular Cartesian coordinates. Critical curves for the nucleation field, for the field at which domain wall motion begins, and for the coercive force of 79NMA Permalloy films of different thicknesses were obtained with the aid of the Kerr and Paraday effects, using techniques that have been described elsewhere by the authors (Fiz. metallov i metallovedeniye, 20, No. 1

Card 1/2

L 15121-66

ACC NR: AP604480

(1966)) and by the authors and R.V.Telesnin, O.S.Kolotov, and T.N.Nikitina (Izv. AN SSSR. Ser. fiz., 28, 572 (1964)). The nucleation fields were measured with films that had been magnetized to saturation along the easy axis; the fields for onset of domain wall motion were measured with demagnetized films. These curves are discussed at some length. For thick films the critical curves for onset of domain wall motion agreed with the formula of S.Middelhoek (J.Appl.Phys., 34, 1054 (1964)) for Neel walls; for thin films with a large angle between the magnetizing field and the easy axis the corresponding curves agreed approximately with Middelhoek's formula for Bloch walls. From a comparison of all the curves it is concluded that the coercive force depends on the ratio of the nucleation field to the field for onset of domain wall motion, and that the behavior of the critical curves for nucleation and for onset of domain wall motion depends on the type of domain walls in a film of given thickness. Orig. art. has: 2 formulas and 2 figures.

SUB CODE: 20

SUBM DATE: 00

ORIG REF: 005

OTH REF: 003

Card 2/2

ACC NR: 11510-06
11510-06 EWT(1)/EWP(a)/EWT(m)/T/EWP(t)/EWP(b) LJP(c) JD/GG
UR/0048/66/030/001/0103/010754

52
B

AUTHOR: Telesnin, R.V.; Il'icheva, Ye.M.; Kolotov, I.S.

ORG: Physics Department, Moscow State University im. M.V. Lomonosov (Fizicheskii fakul'tet Moskovskogo gosudarstvennogo universiteta)

TITLE: Investigation of pulse switching processes in thin films by a magneto-optical technique [Transactions of the Second All-Union Symposium on the Physics of Thin Ferromagnetic films held at Irkutsk 10 July to 15 July, 1964]

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 1, 1966, 103-107

TOPIC TAGS: ferromagnetic film, magnetic thin film, Kerr effect, magnetic domain structure, magnetization, pulsed magnetic field.

ABSTRACT: The switching process in two 1990 Å films of undisclosed composition and having anisotropy fields of 3.9 and 3.5 Oe was investigated by observing with the aid of the Kerr effect the domain structures left after partial switching with pulses of duration from 20 to 800 nanosec and amplitude up to 23 Oe. The film was mounted at the center of a cube of Helmholtz coils and was oriented with its easy axis in a specified direction by observing the behavior of the magnetization when a strong transverse field was switched off, or by noting the absence of a transverse hysteresis loop. The magnetic field of the switching pulse could be directed at a given angle to the easy axis to within a fraction of a degree. The switching time is defined as the duration of the pulse that leaves the film 90% switched. The switching time along

Card 1/3

L 15120-66

ACC NR: AP6004481

the easy axis in the presence of transverse fields up to 0.4 Oe was compared as a function of the switching field with analogous switching times measured by conventional techniques by O.C.Kolotov and V.A.Pogozhev (Izv. AN SSSR. Ser. fiz., 29, No. 5, 1 (1965)). The switching times measured with the present technique were some 20% longer than the conventionally measured switching times. The switching coefficient was 0.38 Oe μ sec and the threshold field obtained by extrapolation of the linear portion of the plot of inverse switching time against switching field was 5 Oe. The inverse switching time versus switching field curves for small inclinations of the switching field to the easy axis were straight lines when the switching field exceeded twice the anisotropy field and were curved in the region of lower switching fields. There was no marked difference between the domain structures left by low and high switching fields. When the inclination of the switching field to the easy axis exceeded the dispersion angle the switching coefficient dropped rapidly to 0.05-0.03 Oe μ sec and the switching times became so short that the domain structures in intermediate stages could be observed only with low switching fields. In a film switched at 80° to the easy axis there were observed short narrow domains extended along the easy axis, which were grouped into bands that were inclined at approximately 30° to the easy axis. This inclination corresponds to that of the band domains observed by S.Middelhoek (I.B.M. J. Res. and Develop., 6, 394 (1962)) in quasistatic partial magnetization rotation. Curves of constant switching time were constructed. These curves differed considerably from astroids, but their approximate shape could be derived from an astroid by taking into

Card 2/3

L 15420-66
ACC NR: AP6004481

2.
account the anisotropy dispersion. The authors thank O.S.Kolotov and V.A.Pogozhev for assistance in comparing the two methods for determining the switching time. Orig. art. has: 4 figures.

SUB CODE: 20

SUBM DATE: 00

ORIG. REF: 003

OTH.REF: 001

JS
Card 3/3

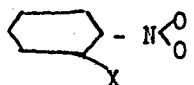
AUTHORS: Shorygin, P. P., Il'icheva, Z. F. SOV/48-22-9-12/40

TITLE: On the Dependence of the Spectra of Aromatic Nitro Compounds on the Rotation Angle of the Nitro Group About the Bond C-N (O zavisimosti spektrov aromaticeskikh nitrosoyedeniy ot ugla povorota nitrogruppy vokrug svyazi C-N)

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1958, Vol 22, Nr 9, pp 1058 - 1062 (USSR)

ABSTRACT: Quantitative relations between the distinctive features of conjugation and the angle θ are only little investigated. In spite of this a knowledge of these relations is very important for the investigation of the nature of the interaction of the atoms in complicated molecules. Different interactions must depend on the angle θ to a different degree. The authors investigated the ultraviolet absorption spectra, the spectra of combination dispersion, and the dipole moments of the ortho-derivatives of nitro benzene including such of the type

Card 1/4



with various substituents X. In the

On the Dependence of the Spectra of Aromatic Nitro Compounds on the Rotation Angle of the Nitro Group About the Bond C-N SOV/48-22-9-12/40

case of a fairly exact estimation of the correction factors, by which various factors influencing θ are taken account of, the data listed in the table must be regarded to be very approximative. If the NH_2 -group (or a similar one) is introduced into the para-position of the nitro benzene molecule the difficulties met in the interpretation of the absorption spectra are reduced. These difficulties partly depend on the immediate action of the ortho-substituents X upon the benzene ring and upon the absorption spectrum. If the dependence of λ and of the energy of the molecule on the angle θ is known for the normal state it is possible to estimate the θ -dependence of the energy of an excited molecule. As λ depends on this angle to quite a low extent the double bond C-N in the excited molecule hardly seems to be strong. The interpretation of the dipole moments is rendered even more difficult by the absence of exact data on the angles C-C-Hal and on other angles. With increasing volume of the substituent X the line intensity of the nitro group in the spectrum of combination dispersion

Card 2/4

On the Dependence of the Spectra of Aromatic Nitro SOV/48-22-9-12/40
Compounds on the Rotation Angle of the Nitro Group About the Bond C-N

decreases rapidly and finally approaches those values which are characteristic for the molecules without conjugation. The investigated parameters can be applied only with certain restrictions. Nevertheless it can be found that the introduction of two Cl-atoms into ortho positions (at an angle θ of about $60-70^\circ$) almost completely removes the observed conjugation characteristics. The information gained shows that the effect of induction has no essential influence on the properties of the nitro compounds. As the nitro group belongs to the most polar ones an even less importance of this effect may be expected in other types of compounds: There are 3 figures, 1 table, and 3 references, 3 of which are Soviet.

ASSOCIATION: Fiziko-khimicheskiy institut im.L. Ya. Karpova (Physico-chemical Institute imeni L. Ya. Karpov)

Card 3/4

09586

15.8104

S/190/61/003/002/004/012
B130/B202

AUTHORS: Slovkhotova, N. A., Il'icheva, Z. F., Kargin, V. A.
TITLE: Effect of fast electrons on the structure of polystyrene
PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 3, no. 2, 1961-197

TEXT: By means of spectroscopic studies the authors attempted to explain the character of the structural changes in polystyrene on irradiation with fast electrons. The polystyrene films were irradiated in the vacuum (10^{-4} mm Hg) at room temperature in a 200 kv electron accelerator tube. The electron spectra and the infrared spectra were taken by means of anCQ-4 (SF-4) spectrometer and anH-800 (N-800) spectrophotometer, respectively. The authors studied specimens of amorphous polystyrene (I) with a molecular weight of 600,000 and 1,300,000, and isotactic crystalline polystyrene (II). To remove the monomeric and low-molecular fractions, polystyrene was precipitated several times from a toluene solution by means of methyl alcohol. For the complete removal of the solvent the films were dried in high vacuum. The infrared spectrum of non-irradiated (II) essentially differs from that of non-irradiated (I). After the irradiation of (II) changes are observed in

Card 1/4

89586

Effect of fast electrons ...

S/190/61/003/002/004/012
B130/B202

the spectrum which indicate an amorphization of the crystalline polystyrene. Instead of the doublet in the range 1050-1083 cm^{-1} a band appears at 1070 cm^{-1} , the maximum at 917 cm^{-1} is shifted to 906 cm^{-1} , the maximum at 562 cm^{-1} is shifted towards lower frequencies; besides, the intensity is reduced. Amorphization of isotactic polystyrene on irradiation distinctly appears at the point where the 917 cm^{-1} band is shifted. On irradiation of polystyrene with doses higher than 2500 Mrad the contour of the spectrum strongly changes at the highly intense 700 cm^{-1} band and at the weak 840 cm^{-1} band. This indicates that double bonds of the type $\text{R}_2\text{C} = \text{CHR}$ and $\text{cis-RCH} = \text{RHC}$ are formed in the polymer. Hence, the process of cross-linking can be explained by the scheme of L. A. Wall and D. W. Brown (see below). According to this scheme the hydrogen released by the rupture of the CH bond of the main chain hydrogenates the neighboring ring of the phenyl molecule under formation of a cyclohexadiene ring with double bonds and cross-linking of the neighboring molecules. Conjugate systems with double bonds are formed in the main chain of polystyrene. Ye. I. Pokrovskiy and M. V. Vol'kenshteyn are mentioned. There are 5 figures, 1 table, and 12 references: 5 Soviet-bloc and 7 non-Soviet-bloc. The 3 references to English language publications read as follows: L. A. Wall, D. W. Brown,

Card 2/4

07700

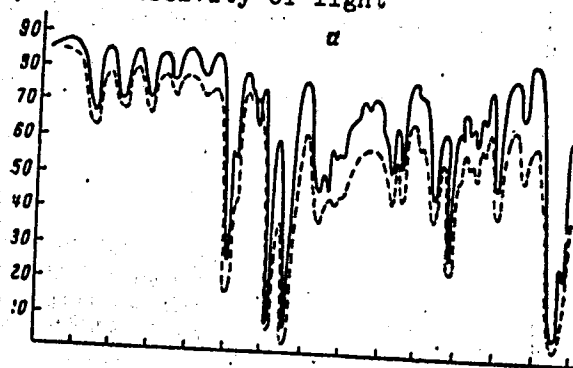
Effect of fast electrons ...

S/190/61/003/002/004/012
B130/B202

J. Phys. Chem., 61, 129, 1957; C. J. Liang, S. Krimm, J. Polymer Sci., 27, 241, 1958; H. L. McMurry, V. Thornton, Anal. Chem., 24, 318, 1959.

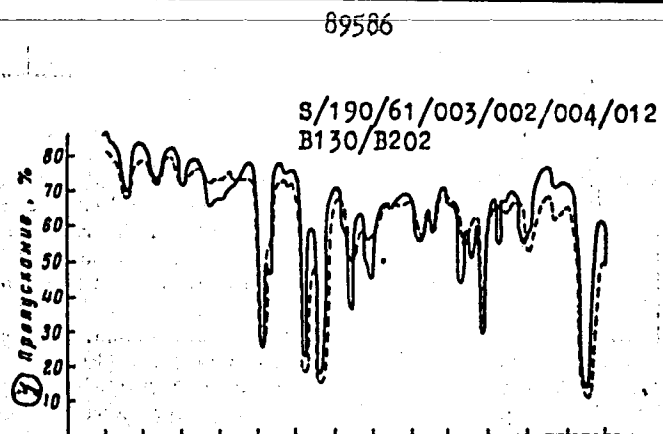
SUBMITTED: June 14, 1960

Legend to Fig. 1: infrared spectra a) atactic polystyrene (molecular weight 1,300,000, $d = 45 \mu$); b) isotactic polystyrene, $d = 30 \mu$; c) atactic polystyrene (molecular weight 600,000, $d = 45 \mu$) not irradiated: solid lines, irradiated: dashed lines y) transmissivity of light

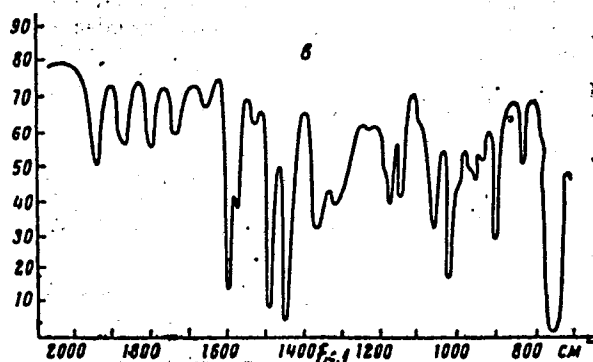


Card 3/4

Effect of fast electrons .



Card 4/4



GOL'DSHTAYN, I.P.; IL'ICHEVA, Z.F.; SLOVOKHOTOVA, N.A.; GUR'YANOVA, Ye.N.;
KOCHESHKOV, K.A.

Spectroscopic investigation of complexes formed by thiophane
and thiopene with tin tetrachloride. Dokl. AN SSSR 144 no.4:
788-791 Je '62. (MIRA 15:5)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. 2. Chlen-
korrespondent AN SSSR (for Kocheshkov).
(Thiophene—Spectra) (Tin chlorides)

2
S/190/63/005/004/015/020
B101/B220

AUTHORS: Slovakhotova, N. A., Koritskiy, A. T., Kargin, V. A.,
Buben, N. Ya., Bibikov, V. V., Il'icheva, Z. F.,
Rudnaya, G. V.

TITLE: Effect of fast electrons on polyethylene at low temperatures.
I. Double bonds in irradiated polyethylene

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 5, no. 4, 1963, 568-574

TEXT: High-density polyethylene (PE), low-density PE, and PE obtained by radiation polymerization, were irradiated with 1.6 Mev electrons in liquid or gaseous N_2 . The dose was varied from 25 to 300 Mrad. The IR spectra were studied² from -196 to $+50^\circ C$. The intensity of the 966 cm^{-1} band proved to be independent of the nature of the PE and of the temperature. Hence it is concluded that the trans-vinylene bonds form in the primary irradiation act. On the contrary, the 909 cm^{-1} band characteristic of vinyl bonds was with 200 Mrad and at $-196^\circ C$ six times as large and at $-50^\circ C$ only 2.5 times as large as in nonirradiated PE. With doses below 25 Mrad the initial concentration of vinyl groups decreased, whereas with

Card 1/2

Effect of fast electrons on....

S/190/63/005/004/015/020
B101/B220

higher doses it increased. Thus irradiation induces the formation as well as the disappearance of vinyl double bonds, the disappearance being favored by higher temperatures. From the experimental fact that the N_{tv}/N_v ratio of the trans-vinylene to the vinyl groups is 18 for PE obtained by radiation polymerization, but 14 with high-density PE, it is assumed that the most probable process is a migration of energy and the formation of vinyl groups by the H atoms splitting off from two neighboring C atoms at the end of the molecular chain. There are 3 figures and 1 table.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physico-chemical Institute imeni L. Ya. Karpov)

SUBMITTED: October 11, 1961

Card 2/2

S/190/63/005/004/016/020
B101/B220

AUTHORS: Slovkhotova, N. A., Koritskiy, A. T., Kargin, V. A.,
Buben, N. Ya., Il'icheva, Z. P.

TITLE: Effect of fast electrons on polyethylene at low temperatures.
II. Conjugated double bonds and allyl radicals in irradiated
polyethylene

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 5, no. 4, 1963, 575-580

TEXT: The IR and epr spectra of irradiated polyethylene were studied.
Results: (1) Irradiation with more than 50 Mrad induces the formation of
conjugated double bonds which are characterized by the 985 cm^{-1} band.
(2) At low temperatures allyl groups form which are characterized by the
 944 cm^{-1} band detected also in the epr spectrum. (3) When benzene or
toluene were admixed to the polyethylene the yield in allyl radicals and
conjugated bonds was reduced. A protective action of the benzene ring
owing to charge migration is assumed. There are 4 figures.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physico-
chemical Institute imeni L. Ya. Karpov)

~~Card 1/2~~

L 41766-65 EPF(c)/EPF(n)-2/EWG(j)/EWA(h)/EWP(j)/EWT(m)/T/EWA(1) Pc-4/Pr-4/Pu-4/
Feb GG/RM

ACCESSION NR: AP4032561

51
47 S/0190/64/006/004/0608/0614
E

AUTHORS: Slovokhotova, N. A.; Il'icheva, Z. F.; Vasil'yev, L. A.; Kargin, V. A.

TITLE: Effect of ionizing radiation on the structure of polypropylene

SOURCE: Vysokomolek. soedin., v. 6, no. 4, 1964, 608-614

TOPIC TAGS: polypropylene, irradiation, polymer, IR absorption, spectrophotometer / N 800 spectrophotometer

ABSTRACT: Films of isotactic and commercial amorphous polypropylene were prepared by hot pressing. They were irradiated in a vacuum (10^{-4} mm) at 25 and -196°C by fast electrons from an acceleration tube (voltage of accelerating field = 200 kv) and by Co^{60} gamma rays. Infrared spectra of the initial and irradiated specimens were recorded on an N-800 spectrophotometer. Absorption bands at 890 and 910 cm^{-1} for irradiated specimens correspond to the double bands $\text{R}_2\text{C}=\text{CH}_2$ and $\text{RCH}=\text{CH}_2$. These bands are due to degradation of polypropylene through radiation. Bands in the 815-855 region and at 1665 cm^{-1} correspond to $\text{R}_2\text{C}=\text{CHR}$ bonds in the

Card 1/3

L 41766-65

ACCESSION NR: AP4032561

irradiated polypropylene. The degradation of polypropylene during irradiation involves simultaneous rupture of the C-C and C-H bonds, with the formation of molecules containing propyl and vinylidene. The number of vinylidene double bonds observed in the spectrum depends markedly on the phase of the polymer and on the temperature of irradiation. The number in specimens irradiated at room temperature may be 2.5 times the number in specimens irradiated at -196C. The number in amorphous polypropylene may be 2.7 times the number for isotactic polypropylene (other factors being the same). Electron paramagnetic resonance spectra show that heating irradiated specimens above 80C gives rise to free polyene radicals, and this indicates that the double bond may migrate along the polymer chain. The crosslinking of two double bonds leads to the appearance of lower frequency bands in the spectrum. Crosslinking with an unpaired electron probably lowers the oscillation frequency of the double bond also. Increase in absorption

in the 1645 cm^{-1} region may take place by double bond absorption in the allyl radical, the oscillation frequency of which is lowered because of the crosslinking of π -electrons of the double bond with an unpaired electron of the radical. Orig. art. has: 2 figures, 1 table, and 2 formulas.

ASSOCIATION: Nauchno-issledovatel'skiy fiziko-khimicheskiy institut im. L. Ya. Karpova (Scientific Research Physico-chemical Institute)

Card 2/3

L 41766-65

ACCESSION NR: AP4032561

SUBMITTED: 08Apr63

ENCL: 00

SUB CODE: 00

NO REF SCV: 003

OTHER: 006

cc
Card 3/3

L 33067-66 EWT(m)/ENF(j) IJI(c) IM
ACC NR: AP6024159 SOURCE CODE: UR/0020/65/164/003/0581/0583

AUTHOR: Il'icheva, Z. F.; Kharlamova, Ye. N.; Slovokhotova, N. A. 57

ORG: Physical Chemistry Institute im. L. Ya. Karpov (Fiziko-khimicheskiy institut) B

TITLE: Spectroscopic investigations of a complex of natural rubber with titanium tetrachloride

SOURCE: AN SSSR. Doklady, v. 164, no. 3, 1965, 581-583

TOPIC TAGS: spectroscopy, natural rubber, titanium compound, cyclization, spectrophotometer, ir spectrum, chloride

ABSTRACT: It is known that under the effect of titanium tetrachloride cyclization of rubbers takes place. The present study was undertaken to elucidate the nature of the intermediate products in this process. Natural rubber (NR) was used for the investigations, treated with boiling acetone for 24 hours, and then reprecipitated with methanol from a benzene solution. For measurement of infrared spectra a NR film 0.004 cm thick was prepared from benzene solution in the center of a KBr disc. After careful drying of the film under high vacuum, several drops of $TiCl_4$ were deposited on it. The bright-orange product then formed was covered with a second KBr disc, after which its infrared spectrum was immediately measured on a UR-10 spectrophotometer. All the operations with $TiCl_4$ and the filling of cuvettes were carried out in a hermetic chamber in dry argon. Infrared spectra of the NR / $TiCl_4$ system differed substantially from

Card 1/2

0915 1746

L 33067-66

ACC NR: AP6024159

the spectra of the original rubber and pure TiCl_4 . In the system, a new intense band appeared in the region of 1530 cm^{-1} ; at the same time, the 1665 cm^{-1} absorption band, corresponding to the valency oscillations of the $\text{C}=\text{C}$ bond in the original NR disappeared. Evidently, a 135 cm^{-1} shift of this band into the long-wave region occurred, along with an increase in its intensity.

An intense absorption band with a maximum in the 445 millimicron region was observed in the electronic spectrum of the system $\text{NR} / \text{TiCl}_4$; a band in this region was also observed in the electronic spectrum of the π -complexes of diphenylethylene and its dimer with SnCl_4 . These facts indicate that in the reaction of NR with TiCl_4 , a π -complex is initially produced. Evidently, due to the formation of this complex disappearance of the 3040 cm^{-1} band of the valency oscillations of the CH bond in the $-\text{C}=\text{CH}-$ group is observed, along with a shift

CH_3

in the 840 cm^{-1} absorption band of the deformational oscillation of this bond in the $820 - 810 \text{ cm}^{-1}$ region. This paper was presented by Academician V. A. Kargin on 13 Mar 1965. Orig. art. has: 3 figures. [JPRS]

SUB CODE: 11,07;20/ SUBM DATE: 20F665 / ORIG REF: 002 / OTH REF: 005

Card 2/2 *pld*

IL'ICHEVA, Z. V.

Cand Tech Sci

Dissertation: "Investigation of the Effect of Deep Cooling on the
Strength of a Cutting Tool."

30/6/49 30 June 49

Moscow Automotive Mechanics

SO Vecheryaya Moskva
Sum 71

LEBEDEV, A.S.; IL'ICHEVA, Z.V., kand. tekhn. nauk

Determining optimum design of the working part of cams for latho
chucks. Avt. prom. 31 no.3:41-43 Mr '65. (MIRA 18:7)

1. Moskovskiy avtomobil'nyy zavod imeni Likhacheva i Moskovskiy
avtomekhanicheskiy institut.

IL'CHEVICH, N.V. [Il'chevych, M.V.]; KOZAK, V.A.

Interrelationships between the state of coronary circulation
and the level of general blood pressure. *Fiziol.shur.Ukr.*
6 no.4:545-552 J1-Ag '60. (MIRA 13:7)

1. Laboratoriya fiziologii krovoobrashcheniya i dykhaniya
Instituta fiziologii im. A.A. Bogomol'tsa AN USSR, Kiyev.
(BLOOD PRESSURE) (CORONARY VESSELS)

ILIC-VUKOTIC, M., dr.; RUSTEMBEGOVIC, F., doc. dr.

Anticoagulant and fibrinolytic therapy. Med. arh. 18 no.5:
39-47 S-0'64.

1. III. interna klinika Medicinskog fakulteta u Sarajevu
(Sef: Prof. dr. I. Brkic).

COSTACHEL, O.; NASTAC, E.; ILIN, B.

Influence of vaccinia virus associated with narcosis on the evolution of the Guerin T₉ epithelioma in rats. Stud. cercet. inframicrobiol., Bucur. 10 no.4:425-432 '59.

1. Comunicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R., in sedinta din 30 martie 1959.

(CARCINOMA, EPIDERMOID, experimental)

(VACCINIA, virology)

(NEOPLASMS, EPITHELIAL, experimental)

(AMOBARBITAL, pharmacology)

COSTACHEL, O.; NASTAC, E.; ILIE, B.

Action of the ovovaccine combined with cytostatics on the evolution of Guerin tumors. in rats. Stud. cercet. inframicrobiol., Bucur. 11 no.1:31-40 '60.

1. Comunicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R. in Sesiunea stiintifica festive din 17-18 august 1959.

(NEOPLASMS, experimental)

(VACCINES, pharmacology)

(ANTINEOPLASTIC AGENTS, pharmacology)

COSTACHEL, O.; ILIE, Bianca

The effect of several viruses and cytostatic products on pulmonary tumors induced by intravenous injection of Ehrlich's ascites in mice. Rev. sci. med. 6 no.3/4:145-148 '61.

(LUNG NEOPLASMS experimental) (CARCINOMA experimental)
(VIRUSES) (ANTINEOPLASTIC AGENTS pharmacology)

ILIE, Bianca; DUMITRIU, Aurora

Modification of the polarographic curves of the serum of rats with
Guerin's carcinoma T 8 after inoculation with vaccinal virus. Stud.
cercet. inframicrobiol. Bucur. 12 no.1:117-128 '61.
(NEOPLASMS experimental) (VACCINIA virology)
(BLOOD PROTEINS chemistry)

COSTAGHEL, O.; ILIE, B.

The action of vaccinia and herpes viruses and of the cytostatic drugs, degranol and TEM, on several experimental pulmonary tumors. Stud. cercet. inframicrobiol. 12 no.3:317-323 '61.

1. Comunicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R. in sedinta din 5 Mai 1961.

(LUNG NEOPLASMS experimental) (VACCINIA virology)
(HERPES virology) (NITROGEN MUSTARDS pharmacology)
(MANNITOL related cpds.) (TRIETHYLENE MELAMINE pharmacology)

COSTACHEL, O.; NASTAC, E.; ILIE, B.

Action of some viruses associated with cytostatics on the Guerin tumor T8. Studii cerc inframicrobiol 12no.4:437-440 '61.

1. Institutul de inframicrobiologie al Academiei R.P.R. 2. Membru al Comitetului de redactie si secretar stiintific de redactie "Studii si cercetari de inframicrobiologie" (for Nastac).

+

ILIE, Bianca

Morphological changes produced by the association of 2 proliferogenic agents in embryonated hen egg. The action of vaccinia virus and certain tumor filtrates. Stud. cercet. inframicrobiol. 12 no.4:517-523 '61.

1. Comunicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R.
(VACCINIA virology) (NEOPLASMS experimental)
(FETAL MEMBRANES)

ILIE, Bianca

Experimental data on the viral etiology of Ehrlich's ascites carcinoma.
Stud. cercet. inframicrobiol. 13 no.3:405-407 '62.

1. Comunicare prezentata la Institutul de inframicrobiologie al
Academiei R.P.R.
(CARCINOMA, EHRLICH TUMOR) (TUMOR VIRUSES)

ILIE, Bianca

Experimental and histopathological investigations of a mouse tumoral disease transmissible by cellular and cell-free material. Stud. cercet. inframicrobiol. 13 no.6:705-714 '62.

1. Comunicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R.

(NEOPLASMS, EXPERIMENTAL) (VACCINIA VIRUS)
(TUMOR VIRUSES)

RUMANIA

Bianca ILIE, Bucharest Oncologic Institute (Institutul Oncologic din Bucuresti.)

"A New Murine Tumor Transmissible by Cell-Free Material. Part 2. Evolution of Disease in Cytemic and Acytemic Form."

Bucharest, Studii si cercetari de inframicrobiologie, Vol 14, No 3, 1963; pp 355-361.

Abstract [English summary modified]: A new murine tumor is described, similar to Friend reticular leukemia but not identical with it; it could be transmitted by cell-free filtrate of tumors, liver, spleen, seminal vesicles or whole blood and was maintained by serial passages for 10 months. Comprehensive histopathological data. Two photographs of organ specimens, 3 photomicrographs; 1 Rumanian and 5 Western ref's.

1/1

ILIE, Bianca

Experimental research on the problem of the oncogenic action of vaccinia virus. Stud. cercet. inframicrobiol. 14 no.5: 625-634 '63.

1. Comunicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R.

(VACCINIA VIRUS) (NEOPLASM, EXPERIMENTAL)
(CARCINOMA, EHRLICH TUMOR)
(SARCOMA, RETICULUM CELL)
(ADENOCARCINOMA) (LIVER NEOPLASMS)

ILIE, Diana

Tumor 62 disease. IV. Research on the action of some immune
serums against tumor 62 ascites. Stud. cercet. inframicrobiol.
15 no.3:279-292 '64.

ILIE, Constantin

Automation of glass melting furnaces in glass factories. Automatica
electronica 5 no.5:211-218 8-0 '61.

ILIE, Costache, ing.

Performance and behavior of the manual rectilinear knitting machines made in Rumania. Ind text Rum 10 no.9:376-379 S '59.

1. Intreprinderea "Textila Rosie," Orasul Stalin.

ILIE, D. Ion; GRIGORE, Mihai (Bucuresti)

Methods of mapping the depth of relief fragmentation
with application to the part of the Danube Valley between
Svinita and Turnu Severin. Natura Geografica 16 no.3:40-44
My-Je '64.

JELEA, Al., dr.; VULPESCU, S., dr.; IOTA, C.Gh., dr.; ILIE, E., dr.; NUTA, M.,
dr.; DIACONU, Justin, dr.

Contribution to the study of the morphofunctional correlations in
bronchial asthma. Med. intern. 3:281-283 Mr '62.

1. Lucrare efectuata in Clinica medicala a Institutului de medicina
interna al Academiei R.P.R., a Ministerului Sanatatii si Prevederilor
Sociale (director: acad. N. Gh. Lupu).

(ASTHMA pathology) (RESPIRATION physiology)
(BRONCHI radiography)

RACOVEANU, Carmen; RUNCAN, V.; IOTA, C.G.; ILIE, E.; OLINESCU, R.

Respiratory changes in chronic hepatitis and post-hepatitis cirrhosis.
Spiro-gasometric investigations. Stud. cercet. med. intern. 3 no.4:

473-484 '62.

(HEPATITIS)	(LIVER CIRRHOSIS)	(RESPIRATORY DISEASES)
(SPIROMETRY)		(BLOOD GAS ANALYSIS)

JELEA, Al.; IOTA, C.G.; RACOVEANU, Carmen; ILIE, E.; NUTA, M.

Method of spirographic diagnosis of tracheobronchial dyskinesia of
the hypotonic type. Stud. cercet. med. intern. 3 no.5:661-668 '62.
(TRACHEA) (BRONCHIAL DISEASES) (RESPIRATORY FUNCTION TESTS)

GALEA, Gh., conf.; ILIE, E., dr.; BONA, C., dr.

Considerations on some "enzymatic lesions" of phospholipid and glyco-
protein metabolism in thesaurismosis. Med. intern. 14 no.4:393-401
Ap '62.

(LIPID METABOLISM) (PHOSPHOLIPIDS)
(PROTEIN METABOLISM DISORDERS) (GLYCOPROTEINS)
(METABOLIC DISEASES)

PAUN, R., dr.; MARCUS, N., dr.; ILIE, E., dr.; LAZAROVICI, M., chimist

Contribution to the relation of oxalic acid metabolism and hepatic diseases. II. Investigations of oxalemia and oxaluria in chronic hepatitis. Med. intern. 14 no.4:455-460 Ap 1962.

1. Lucrare efectuata in Clinica I medicala, I.M.F., Bucuresti.
(director: acad. N.Gh. Lupu).

(OXALATES) (BLOOD) (URINE) (HEPATITIS) (URINARY CALCULI)

JELEA, Al., dr.; ILIE, E., dr.; VAISLER, A., interni; DIACONU, J.

Hypotonic tracheobronchial dyskinesia. Med. intern. 14 no.6:755-758
Je '62.

(TRACHEA) (BRONCHIAL DISEASES) (MOVEMENT DISORDERS)
(RESPIRATORY INSUFFICIENCY) (PULMONARY EMPHYSEMA)
(BRONCHOPNEUMONIA)

PAUN, R., conf.; MARCUS, N., dr.; ILIE, E., dr.; LAZAROVICI, M., chim.

Investigations of the metabolism of oxalic acid during chronic liver diseases. III. Investigations on renal clearance of oxalic acid in liver diseases. Med. intern. 14 no.12:1479-1485 D '62.

1. Clinica medicala "Colentina" (director: acad. N. Gh. Lupu)
I.M.F., Bucuresti.
(OXALATES) (URINE) (HEPATITIS) (URINARY CALCULI)

IOTA, C.G.; PAPAZIAN, Ripsimia; ILIE, E.; URSEA, N.; POPESCU, T.;
RUNCAN, V.

The neurovegetative syndrome in chronic hepatitis and post-hepatitis
cirrhosis. III. Investigations of the adaptation of the peripheral
circulation during some tests of general reheating and cooling of
the body. Stud. cercet. med. intern. 4 no.2:169-176 '63.

(AUTONOMIC DYSFUNCTION) (HEPATITIS) (LIVER CIRRHOSIS)
(BODY TEMPERATURE REGULATION) (BLOOD CIRCULATION)

JELEA, Al., dr.; BUJAR, H., dr.; IOTA, C.Gh., dr.; ILIE, E., dr.; VAISLER, Al.,
int.

Contributions to the study of the relations between functional and
radiological examinations, with double exposures, in bronchial asthma.
I. Med. intern. 15 no.3:349-353 Mr '63.

L. Lucrare efectuată în Institutul de medicină internă al Academiei
R.P.R. și M.S.P.S. (director: acad. N.Gh. Lupu).
(ASTHMA) (THORACIC RADIOGRAPHY) (RESPIRATORY FUNCTION TESTS)

ILIE, E.

RUMANIA

ILIE, E., MD; BONA, C., MD; BONA, M., MD; MLADINESCU, Beatrice, MD.

Bucharest, Viata Medicala, No 7, 1 Apr 63, pp 441-446.

"The Central Role of Glutamic Acid in the Cerebral Metabolism.
(Physiopathological considerations)."

(H)

JELEA, Al., dr.; RACOVEANU, Carmen, dr.; ILIE, E., dr.;
SUTEANU, St., dr.; DUMITRESCU, C., farm.; GAVRILA, F., extern.

Contribution to the study of treatment with α -chymotrypsin
in bronchopulmonary diseases. Med. intern. 15 no.4:495-498
Ap '63.

1. Lucrare efectuata in Institutul de medicina interna, al
Acad. R.P.R. si al M.S.P.S. (director: acad. N. Gh. Lupu).

(CHYMOTRYPSIN) (BRONCHITIS)
(PULMONARY EMPHYSEMA) (ASTHMA)
(BRONCHIECTASIS) (BRONCHIAL SPASM)

PAUN, R., conf.; MARCUS, N., dr.; ILIE, E., dr.; OLINESCU, R., chim.;
PAPAGHEORGHE, Camelia, chim.; LAZAROVICI, Miriam, chim.;
CRISTESCU, Marcela, chim.

Coproporphyrinuria in chronic hepatitis. Med. intern. 15 no.6:
687-693 Je '63.

1. Lucrare efectuata in Institutul de medicina interna al
Academiei R.P.R. si Ministerul Sanatatii si Prevederilor Sociale,
Bucuresti (director: acad. N.Gh. Lupu).
(HEPATITIS) (PORPHYRINS) (URINE)
(KIDNEY FUNCTION TESTS)

JELEA, Al., dr.; SUTERANU, St., dr. ILIE, E., dr.; CAVRILA, F., extern.

Respiratory and digestive interrelations. Med. intern. 15 no.12:
1515-1522 D'63.

1. Lucrare efectuata in Institutul de medicina interna al
Acad R.P.R. si Ministerului Sanatatii si Prevederilor Sociale
(director:acad. N.Gh.Lupu).

*

PAPAZIAN, Ripsimia, dr.; IOTA, C.G. dr.; ILIE, E., dr.

Nervous and circulatory disorders during the evolution of chronic hepatitis and post-hepatitis cirrhosis. Their significance and current possibilities of physiological investigation. Med. intern. 16 no. 1: 19-26 Ja '64.

1. Lucrare efectuata in Institutul de Medicina Interna al Acad. R.P.R. si M.S.P.S. (director: Acad. N.Ch. Lupu).

*

JELEA, Al. dr.; ILIE, Ernest, dr.; GAVRILA, F., extern.

Contribution to the study of pulmonary insufficiency due to
tabagism. Med. intern. 16 no. 2: 229-234 F'64.

1. Lucrare efectuata in Clinica medicala a Spitalului "Colentina",
I.M.F., Bucuresti.

*

JELEA, Al., dr.; SUTEANU, St., dr. ILIE, E. dr.

Current status of pneumology. Med. intern. (Bucur.) 16 no.4:
487-492 Ap'64.

1. Clinica medicala "Colentina" (sef de disciplina, conf. R.Paun).

*

BONA, C., dr.; DUMITRESCU, M. dr.; GHYKA, Gr. dr.; ILIE, E., dr.

Current data on the bio-structure and functions of the cell nucleus in normal and pathological conditions. I. Bio-structure of the nucleus. Med. intern. (Bucur.) 16 no.4:493-504 Ap^r64.

1. Institutul "Dr. I. Cantacuzino" si Clinica medicala "Colentina" din Bucuresti.

*

GHYKA, Gr., dr.; BONA, C., dr.; DUMITRESCU, M., dr.; ILJE, E., dr.

Current data on the biostructure and functions of the cell nucleus in normal and pathological conditions. II. Biosynthesis of the nuclear constituents. Med. intern. (Bucur), 16 no.9:1039-1049 S '64.

1. Lucrare efectuata la Institutul "Dr. I. Cantacuzino" si Clinica medicala "Colentina", Bucuresti.

DUMITRESCU, M., dr.; CHIKA, Gr., dr.; BONA, C., dr.; ILIE, E. dr.

Current data on the biostructure and functions of the cell nucleus in normal and pathological conditions. III-a. The role of the nucleus in the biosynthesis of cellular constituents. Med. intern. (Bucur.) 17 no.1:35-43 Ja '65

1. Lucrare efectuata in Institutul "Dr. I. Cantacuzino" si Clinica medicala a Spitalului Colentina, Bucuresti.

DUMITRESCU, M., dr.; GHYKA, Gr., dr.; BONA, C., dr.; ILIE, E., dr.

Current data on the biosynthesis and functions of the cell nucleus in normal and pathological conditions. IV-a. Genetic mechanism of regulation of normal and pathological protein synthesis. Med. intern. (Bucur) 17 no.2:141-148 F'65.

1. Lucrare efectuata in Institutul "Dr. I. Cantacuzino" si Clinica medicala a Spitalului "Colentina", Bucuresti.

STANESCU, S.; VIRCOL, A.; BIRTU, E.; TETEL, E.; VIRCOL, L.; MARCULESCU, I.;
CUTE, E.; AVADANEI, A.; BURCIU, O.; CIOBANU, S.; ILIE, E.; MOTEA, I.

Hydrographic basin of the Mures River; a hydrologic monograph.
Studii hidrol 6:3-273 '63.

TECUSAN, N.; SANDRU, A.; POPESCU, M.; STEFAN, Const.; ILIE, E.; NITA, I.; COSMA, I.

Determining the fuel consumption in vacuum displacement of the
U-650 tractor. Bul St si Tehn Tim 9 no.1:135-142 Ja-Je '64.

ILIE I.

S/169/62/000/012/032/095
D228/D307

AUTHORS: Antonescu, V., Calinicenco, N., Nechita, O., Onu, C.,
Rusu, Gh. Ilie, Tomozei, Cl., Tibu, M., Vescan, T.T.
and Viscriu, I.

TITLE: Investigation of the radioactivity of some rocks
around the mines of Rodna Veche-Valea Vinului

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 12, 1962, 46-47,
abstract 12A378 (Studii și cercetări științ. Acad.
RPR Fil. Iași, Fiz. și științe tehn., 12, no. 1,
1961, 31-33 (Rum.; summaries in Rus. and Eng.))

TEXT: The authors investigated the radioactivity of chlor-
ite-schist, andesite, and sericite-schist samples from the area of
the old mines of Rodna Veche-Valea Vinului in the Rodna Massif
(Rumanian People's Republic). The results of measuring the radio-
activity of samples show that the ratio of the number of readings
per second in the presence of 1 mm Al to the number of readings
without Al varies from 0.1 to 0.30 when the activity ranges from

Card 1/2

Investigation of the radioactivity ... S/169/62/000/012/032/095
D228/D307

0.16 to 0.91 μ c. The analytical data for these rocks coincide with the data pertaining to rocks from the Baia Borca area.

[Abstracter's note: Complete translation]

Card 2/2

ILIE, I.

"Origin of the continents and oceans" by D.G. Panov. Analele geol geogr
16 no.3:137-139 J1-Ag '62.

ILIE, I.

"Applied geomorphology." Reviewed by I. Ilie. Analele geol geogr
16 no.3:139-141 JI-Ag '62.

ILIE, I.

"Geomorphology with elements of geology " by V.V. Piotrovakiy.
Reviewed by I. Ilie. Analele geol geogr 16 no.3:141-144 JI-Ag '62.

ILIE, Ioni; POPESCU, Nicolae; GORGAN, Marcel

Our correspondents are writing to us from the cement plants.
Constr Buc 14 no.651:1 30 Je '62.

CASLER, Gh., prof.; BELOUS, V., lector; RENER, A., lector; CONDREA, I.,
asist.; ILIE, I., ing.; ZERELLES, W., ing., SCHMIDT, H., ing.

Influence of the geometry of the cutting part of helicoidal
drills on the drilling dynamics of some Rumanian steels.
Constr mas 15 no.8:562-569 Ag'63.

1. Institutul politehnic, Iasi (for Casler, Rener, Condrea).
2. Fabrica de scule, Risnov (for Ilie, Zerelles, Schmidt).

ILIE, Ion, correspondent voluntar (Medgidia)

Successes in socialist competition. Constr Buc 15 no.724:
1 23 N '63.

DATCU, Nicolae; MOLDOVAN, Ilie; RADU, Ion; ILIE, Ion; POPESCU, Nicolae;
COVAR, O.A., economist

From letters received from voluntary newspapermen. Constr
Buc 16 no.742:2 28 March 1964.

ILIE, Ion

An action of the whole collective. Constr Buc 16 no.
743:1 4 April '64

ILIE, Ion; RASCA, Dumitru; CRACIUN, Ion, economist; SIRIOPOL,
Telemac; BARBALATA, Stanciu; CRISAN, Bazil, ing.;
CIRSTOIU, Valentin; GHINEA, Vasile, correspondent

Enthusiastic socialist competition. Constr Buc 16
no. 750:1 23 May '64.

1. The Galati Branch of the Voluntary Editorial Office
of "Constructorul" (for Siriopol, Barbalata).
2. Head of the Department of Production, Regional Trust
for Housing Construction, Hunedoara (for Crisan).

BERENSTEIN, I.; ILIE, Ion; BUCUR, Stelian

Rumanian newspaper correspondents on the January successes.
Constr Buc 17 no.788:1 13 F '65.

ILIE, Ion; RADU, Ion

News from Medgidia. Constr Buc 17 no.790:3 27 F '65.

NICOLAE, M.; ILIE, Ion, correspondent

In short about innovations. Constr Buc 17 no.792:3 12
Mr '65.

POSEA, Grigore, conf. univ. (Bucuresti); ILIE, Ion, asist, univ. (Bucuresti)

Practical importance of terraces and river valleys. Natura Geografica
13 no. 3: 33-42 My-Je '61.

ILIE, Ion.D. (Bucuresti); GRIGORE, Mihai (Bucuresti)

Forms of karst relief developed on the volcanic rocks of the
Harghita Massif and Ciucuri Depression. Natura Geografie 14 no.5:35-
39 S-O '62.

ILIE, M., geolog (Bucuresti)

Achievements in petrography and stratigraphy. Nautra
Geografie 16 no. 4:21-28 J1-Ag '64.

ILIE, MARIA

RUMANIA / Chemical Technology, Chemical Products and H
Their Application, Part 3. - Pesticides.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 62037.

Author : Sever Petrasou, Maria Ilie.

Inst : Not given.

Title : Study of Physical Properties of Mineral Powders
as Insecticide and Fungicide Fillers.

Orig Pub: Studii si cercetaricohem., 1957, 5, No 3,
389 - 394.

Abstract: The density, the volumetric weight, the poros-
ity and the natural slope of fillers (benton-
ite, kaolin, diatomite, talc) were determined.
The granulometric analyses were carried out
with a microscope, as well as by elutriation
and screening through standard screens.

Card 1/1

L 31365-66 RO

ACC NR: AP6021275

SOURCE CODE: RU/0003/65/016/001/0016/0018

AUTHOR: Ilie, Maria--Iliye, M.

ORG: none

TITLE: Determining the adherence of pesticide dusts

SOURCE: Revista de chimie, v. 16, no. 1, 1965, 16-18

TOPIC TAGS: pesticide, physical chemistry property

ABSTRACT: The author reports on a method of determining the adherence of the common Rumanian pesticide dusts of the talcum type, using an apparatus of the Goernitz-Zeumer type. Type A-II with an adherence of close to 50 percent was found to be a good standard. Series of determinations on different products show that the average error of the method is 10 percent. Orig. art. has: 2 figures, 4 formulas and 2 tables. [Based on authors' Eng. abstract] [JPRS]

SUB CODE: 06, 07 / SUBM DATE: none / OTH REF: 005

Card 1/1 JS

UDC: 632.934;620.179.4

ILIE, Marin D.

Trade-union activity of the workers in a Rumanian village. Munca
sindia 7 no.10:35-37 0 '63.

1. Presedintele Comitetului sindicatului salariatilor din comuna
Sadova, regiunea Oltenia.

ILIESCU, C.C. Prof. ; ILIE, N. Dr.; PANTZER, M. Dr.

Total atrio-ventricular block with periods of ventricular fibrillation.
Med. int., Bucur. 9 no.5:737-739 May 57.

1. Lucrare efectuata in Clinica medicala a Spitalului Barnath Andrei
Bucuresti (director: prof. C. C. Iliescu)
(HEART BLOCK, complications
ventric. fibrillation, in total auric.-ventric. block)
(VENTRICULAR FIBRILLATION
periodic, in total auric.-ventric. block)

BUSNITA, Th.; PRUNESCU-ARION, Elena; BREZEANU, Gh.; ZAMFIR, V.; BALTAC, Margareta; ILIE, Maria

Hydrobiological and piscicultural study of ponds with river pumped water. Studii cerc biol anim 15 no.4:419-441 '63.

1. Membru corespondent al Academiei R.P.R. (for Busnita).

PETRASCU, S.; BALTAC, Margareta; ILIE, Maria

Physical and chemical aspects of the formulation of
phytopharmaceutical products. Rev chimie Min petr 15
no.2:91-100 P '64.

1. Academia R.P.R., Institutul de biologie "Tr. Savulescu",
Laboratorul de insectofungicide si toxicologie.

ILIE, Maria

Determining the adherence of dust phytopharmaceutical
preparations. Rev chimie Min petr 16 no.1;16-18 Ja '65.

ILIE, MIRCEA

Figuri de geologi romini; Gheorghe Munteanu Murgoci, Ludovic Mrazec. Ion Popescu-Voitesti.

Bucuresti, Rumania, Editura Stiintifica, 1957. 179 p.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 8, August, 1959

Uncl.

ILIE, Mircea; GHEORGHIU, Const.

Minutes of the Mesozoic Conference. Dari seama sed 47:
13-22 '59/60 [publ. '62].